# Pawan Wagh

Tempe, Arizona, United States | (480)-329-4226 | [waghpawan09@gmail.com](mailto:waghpawan09@gmail.com) | [deltaprophet.github.io](https://deltaprophet.github.io) | [LinkedIn](https://linkedin.com)

## WORK EXPERIENCE

**Software Developer - University Technology Office, Tempe, USA**                                      **June 2021 - Present**
- Working as a part-time developer on web and mobile applications used by **50,000+ students** on a daily basis.
- Developed role matrix to limit actions according to user role on ASU's in house chatbot web service.
- Implemented deep linking functionality in front end and REST api for mobile applications.
- **Technologies used :** JavaScript, React, Node.js, AWS Lambda, DynamoDB, GraphQL.

**Software Engineer 2  - Quick Heal Technologies, Pune, India**                                      **July 2019 - Oct 2020**
- Developed backend server and tools, created technical designs for features and performed code reviews.
- Optimized Service pack delivery algorithm which reduced storage used on AWS and decreased cost per release by **20%**.
- Implemented setting to toggle OCR scan throughout management console, server, client and file system driver modules.
- Developed tools to update database schemas and binaries of on-premise servers during new releases.
- Engineered a plugin and REST api to monitor mail contents for confidential data in outlook 365.
- Debugged crashes in products by analyzing crash dumps and handled customer escalations.
- **Technologies used :** C++, MySQL, WINAPI, Go, Node.js, AWS EC2.

**Programmer** - **Ubisoft Entertainment, Pune, India**                                      **July 2017 - July 2019**
- Contributed to tools, engine and gameplay for PlayStation 4 and Xbox One on **Far Cry 3 CE with 2M+ downloads**.
- Implemented platform specific features (User Profiles, Achievements, Input) using PlayStation 4 and Xbox one APIs.
- Optimized product by fixing retail configuration which resulted in performance gain of **30%**.
- Led development for the camera system, implemented camera features in engine and automated builds by using Jenkins.
- Automated data cleanup which cleared more than **60%** sqlite data and reduced daily data sync up time by **25 mins for 100+ team members.**
- **Technologies used :** C++, Python, Jenkins.

## EDUCATION

**Arizona State University,** Tempe, USA                                      **Jan 2021 -  Present**
Master of Science in Computer Science                                      GPA - 3.78/4
- **Coursework -** Database Management System Implementation, Software Security, Foundations of Algorithms

**Pune Institute of Computer Technology,** Pune, India                                      **July 2013 - June 2017**
Bachelor of Engineering in Computer Science                                      GPA - 8.55/10
- **Coursework -** Data Structures, Operating Systems, High Performance Computing, Principles of Modern Compiler Design, Computer Networks, Cloud Computing, Object Oriented Programming, Design and Analysis of Algorithms

## SKILLS

| | |
|---|---|
| **Programming Languages** | C++, C++11, C++14,  Java, Python, JavaScript |
| **Databases** | MySQL, MongoDB, DynamoDB |
| **Frameworks\Libraries** | STL, Android SDK, React, Node.js |
| **Tools** | Visual Studio, VMware vSphere, Terraform, Maven, Docker, Git, Perforce, JIRA |
| **Others** | AWS (EC2, Lambda, API Gateway), Debugging, Design Patterns, REST APIs, Object Oriented Design, Multithreading, Problem Solving, Leadership |

## PROJECTS

**User Preference Sensitive Database System (Java, Minibase)** -  Implemented skyline operator, Clustered B+ tree indexes for open source database(Minibase), managed memory used by operator and pruned **80**% records by developing algorithm.

**File Activity Monitor (C,  WDM, Minifilter)  -** Wrote a Minifilter driver to monitor file activities(read, write, delete) using the windows driver model, created a user space application to communicate directory paths to kernel space minifilter driver.

**Quality Of Experience\Quality Of Service Mapping In Software-Defined Networks (Java, MongoDB)** - Designed end to end flow for the project, developed an application with REST endpoints to adjust path weights to avoid congestion in the network.

## ACHIEVEMENTS AND LEADERSHIP ACTIVITIES

- Led **team of size 8** for CSE 543 Information Assurance and Security in Spring 2021.
- Spot Award at Quick Heal for optimising service pack delivery mechanism.
- Received Big Bounty Hunter award at Ubisoft Pune for fixing maximum number of issues.